

2. The vectors of claim 1, wherein each arm further comprises a rare restriction endonuclease recognition sit.
3. The vectors of claim 1, wherein each arm further comprises a polylinker.
4. The vectors of claim 1, wherein said first cyclization element is a nucleic acid comprising a first LOX site, and said second cyclization element is a nucleic acid comprising a second LOX site.
5. The vectors of claim 1 wherein:
- (a) the first arm further comprises a first nucleic acid homologous to the 5' terminus of a target nucleic acid; and
  - (b) the second arm further comprises a second nucleic acid homologous to the 3' terminus of the target nucleic acid.
6. A composition comprising said vectors of claim 1 and a target sequence. - -

REMARKS

The Examiner identified four groups of claims:

- I. Claims 1-13, 20-22 and 27-32 directed to a cloning system;
- II. Claims 14-19, 23-26, 33 and 34 directed to vectors;
- III. Claims 35-43 drawn to a method of producing a vector; and
- IV. Claims 44-47 drawn to a method of producing a recombinant DNA.